

1 WHAT IS CLAIMED IS:
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3 1. A nozzle hub for securing a nozzle core comprising:
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5 a) a cylindrically shaped wall extending downward to an exterior groove,
6 then outward to a break point defined by a hexagonal shape spaced apart from
7 said exterior groove, downward there-from along the faces to an adjacent fund-us
8 which has a hexagonal perimeter;

9 b) a interior cylindrically shaped barrel wall made with a slight inward
10 slant or cast and extends downward from the upper surface to said fund-us;
11

12 c) a groove with a ledge defined by a vertical perimeter and a flare
13 extending inward from said perimeter;
14

15 d) a longitudinal slot descending along said hub set inward at an acute
16 angle;
17

18 e) a horizontal furrow intersecting said groove and spaced tangent to said
19 ledge defined by said vertical perimeter and said flare extending inward from
20 said perimeter;
21

22 f) wherein there is a controlled ratio of the external diameter of said
23 interior cylindrically shaped barrel wall made with a slight inward slant or cast
24 and the width of said longitudinal slot descending along said hub set inward at an
25 acute angle.
26

27 2) The nozzle hub for securing a nozzle core of Claim 1, wherein said cylindrically
28 shaped barrel wall is made with a slight inward slant or cast and extends downward from said
29 flare wall at an angle between 1 and 5 degrees and more preferable about 2-4 degrees which
30 helps to support and align the nozzle core.
31

1 3) The nozzle hub for securing a nozzle core of Claim 1, wherein said nozzle hub can
2 be removed, separated from said nozzle core and reused for securing said nozzle core again.

3
4 4) The nozzle hub for securing a nozzle core of Claim 1, wherein said barrel wall of
5 said nozzle hub secures said nozzle core to a reservoir from which a viscous liquid is
6 transferable.

7
8 5) The nozzle hub for securing a nozzle core of Claim 1, wherein said exterior groove
9 is a means for connection of said barrel wall of said nozzle hub through an adjacent fund-us
10 which has a hexagonal perimeter shape to a source of heat.

11
12 6) The nozzle hub for securing a nozzle core of Claim 1, wherein said longitudinal slot
13 extending downward along said hub, said nozzle core is compressed through said slot, sliding
14 along said horizontal furrow, intersecting said groove and spaced tangent to said ledge defined
15 by said vertical perimeter, expanding to locate said nozzle core on said flare extending inward
16 from said perimeter.

17
18 7) The nozzle hub for securing a nozzle core of Claim 1, wherein said break point
19 defined by a hexagonal shape spaced apart from said exterior groove at an angle of about 30
20 degrees with the vertical.

21
22 8) The nozzle hub for securing a nozzle core of Claim 1, wherein said break point that
23 is hexagonal in shape, and measures between 5 and 25 millimeters and more preferable about 8-
24 12 millimeters between parallel said faces.

25
26 9) The nozzle hub for securing a nozzle core of Claim 1, wherein said cylindrically
27 shaped wall extending downward to said exterior groove is about 7 to 8 millimeters.

28
29 10) The nozzle hub for securing a nozzle core of Claim 1, wherein said exterior groove
30 span is about one millimeter.

1 11) The nozzle hub for securing a nozzle core of Claim 1, wherein said groove with a
2 ledge defined by said vertical perimeter and said flare extending inward from said perimeter is
3 about one or two millimeters from the top circular surface.
4

5 12) The nozzle hub for securing a nozzle core of Claim 1, wherein said longitudinal
6 slot descending along said hub set inward at an acute angle has a wall convergence between
7 about 6 to 8 degrees included.
8

9 13) The nozzle hub for securing a nozzle core of Claim 1, wherein said horizontal
10 furrow intersecting said groove and spaced tangent to said ledge is about 0.5 to 0.75 millimeters
11 across.
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13 14) The nozzle hub for securing a nozzle core of Claim 1, said exterior groove,
14 downward there-from along the faces to an adjacent fund-us is about 4 to 8 millimeters.
15

16 15) The nozzle hub for securing a nozzle core of Claim 1, wherein the ratio of the
17 interior cylindrically shaped barrel wall made with a slight inward slant or cast to the width of
18 said longitudinal slot, descending along said hub set inward at an acute angle, exceeds 0.5.
19

20 16) The nozzle hub for securing a nozzle core of Claim 1, wherein said longitudinal
21 slot descending along said hub set inward at an acute angle is parallel to said interior
22 cylindrically shaped barrel wall made with a slight inward slant or cast.
23

24 17) A nozzle hub for securing a nozzle core comprising:
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26 a) a interior cylindrically shaped barrel wall made with a slight outward
27 cast or slant, extending upward from said fund-us which has a perimeter that is hexagonal in
28 shape and slightly outward to a circle, lying in a plane parallel to the plane of said ledge defined
29 by said horizontal perimeter and said flare, extending outward to the groove forming a nest for
30 said nozzle core;

1 b) a interior cylindrically shaped barrel wall with a slight outward cast
2 or slant, extending upward from said groove to a circle, lying in a plane parallel to the plane of
3 said fund-us;

4
5 c) a exterior hexagonal perimeter, extending upward there-from to a
6 hexagonal perimeter, extending upward and outward to a groove and upward there-from to a
7 cylindrically shaped wall, extending upward to a top circular surface;

8
9
10 d) a exterior outward opening longitudinal slot, extending upward to a
11 horizontal furrow parallel to the plane of said ledge and intersecting said groove.

12
13 18) The nozzle hub for securing a nozzle core of Claim 17, wherein said interior
14 cylindrically shaped barrel wall with a slight outward cast or slant, extending upward from said
15 groove to a circle lying in a plane parallel to the plane of said fund-us is about 25 millimeters in
16 diameter.

17
18 19) The nozzle hub for securing a nozzle core of Claim 17, wherein said
19 horizontal furrow originates from a flat surface recessed below said cylindrically shaped wall,
20 extending upward to said top circular surface.